ALPHA-NAV MULTIMEDIA

Multimedia Navigation System

AN5650NV

OWNER'S MANUAL

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Precautions

To avoid the risk of injury or accident, read the following precautions before operating the unit.

On safety

Comply with your local traffic rules and regulations.

- **While driving**
  -You must not watch or operate the monitor. It may lead to distraction and cause an accident. Park your car in a safe place before watching the monitor and/or operating the unit.
- **While operating**
  -Do not insert your hands ,fingers or foreign object into the unit while the monitor is functioning. It may cause injury or damage to the unit.
  -Keep small articles out of reach of children.
- If your car was parked in direct sunlight resulting in a considerable rise in temperature inside the car, allow the unit to cool off before operating it.

Preventing accidents

• The video images appear only after you park the car and set the parking brake.When the car starts moving, the video pictures automatically disappear for safety reasons.

• Do not watch the monitor while driving. You may cause a traffic accident if your attention is distracted by the monitor.

• Do not use the System Setup feature while driving, or perform any other function that could divert your attention from the road.
• When you connect the backup camera:
Watch the surroundings carefully for your safety. Do not depend on the back camera exclusively.
• When backing up your car, be sure to look back for your safety.
• Do not touch the liquid crystal fluid if the LCD is damaged or broken. The liquid crystal fluid may be hazardous to your health or fatal. If the liquid crystal fluid from the LCD contacts your body or clothing, wash it off with soap immediately.

Playable discs

The following types of discs/files are compatible:
1.CD-ROM (ISO), CD-R, CD-RW,
DVD+R/RW, DVD-R/RW
2. CD-DA, DVD Video
3. MP3 data
4. WMA data
5. JPG images
6. WMV format
7 AVI format
8. MPG format

The following types of discs/files are not compatible:
1. WMA files that are protected by DRM (Digital Rights Management)
2. WMA lossless format
3. MP3 PRO format
4. WAV format

Some recordable DVDs and CDs may be incompatible with this unit, depending on media type and recording method

Touch Screen Operation

Most of the touch screen buttons operate this system. To prevent damage to the screen, lightly touch buttons on the screen with your finger. When a button on the screen is touched, a beep sounds. Do not use other objects to touch the screen as it may cause damage to the LCD.

DVD Region Management

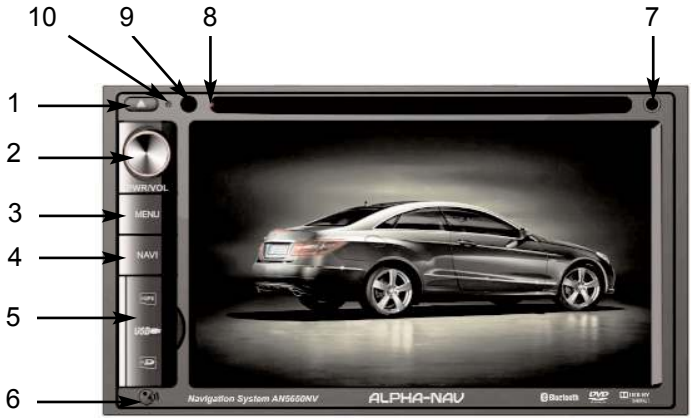
Some DVD discs can be played only in certain playback modes according to the design of the software. As the unit plays discs according to their design, some functions may not work as intended. Please be sure to read the instructions provided with each disc. This player has been designed to play back DVD software that has been encoded for specific region areas. It cannot play back DVD software encoded for other region areas than the region areas for which it has been designed.

This unit will play discs labeled "1".
DVD region codes:

1. USA, Canada
2. Japan, Europe, South Africa, Middle East
3. Rep. of Korea, Taiwan, Hong Kong, Parts of Southeast Asia
4. Australia, New Zealand, Mexico, South America
5. Eastern Europe, Russia, India, Africa
6. China

Controls and Indicators

Button Operation



1. EJECT

Press for disc insertion/ejection.

2. POWER OFF/VOL

Rotate dial to adjust the volume.
Press to turn "ON" the unit.
Press and hold to turn "OFF" the unit.
Short press when the unit is "ON" to put the system in "Mute".

3. MENU

Press to enter main menu, press again to go back to previous mode.

4. NAVI

Press to enter navigation mode, Press again to go back to previous mode. (Navigation System will be running in the background

5. SD CARD SLOTS

Top SD Card contains Navigation Software and Map.Bottom SD card can be used to view pictures, play music or movie files.

5. USB CONNECTOR

Use to connect iPod or iPhone to the unit for touch screen iPod/iPhone control and playback. Can also be used to play music, movies of picture files from USB memory sticks and USB portable hard drives

6. MICROPHONE

Microphone for Bluetooth hands-free phone system

7. AUX 1 AUDIO/VIDEO INPUT

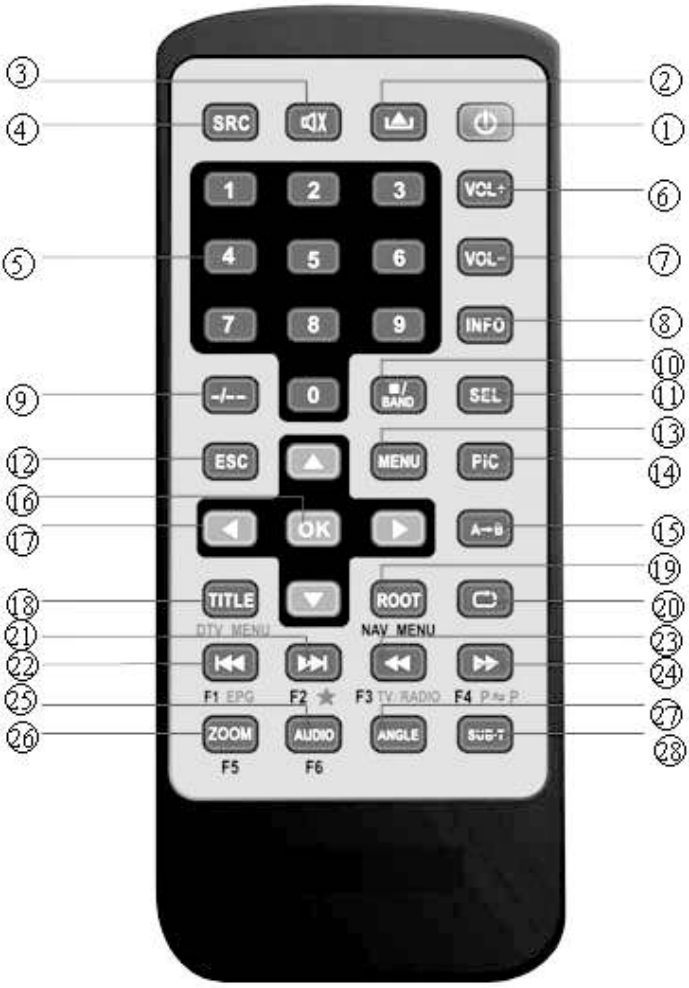
8. DISC IN UNIT INDICATOR LED

Red, disc in, Green, Disc out

9. REMOTE SENSOR

10. RESET

Remote Control



Remote Control Function List

1.	Power	⏻	Turn power on/off
2	Open	⏏	Disc inset/eject
3	Mute	🔇	Toggle on/off audio output
4	SRC	SRC	Select playing mode
5	Numeric Button	6.7.8.9.0	Directly access certain track/chapter/ preset station in current band
6	VOL up	VOL+	Increase the volume
7	VOL down	VOL-	Decrease the volume
8	Information	INFO	Display playing information
9	GOTO search	-/--	Position search function on VCD/DVD mode
10	Stop/Band	■/BAND	Select FM/AM band in tuner mode, stop playback
11	Select	SEL	Enter the audio settings
12	ESC	ESC	Exit the current menu
13	Menu	MENU	Enter the main menu of the unit
14	Picture	PIC	Adjust the parameters of the TFT settings
15	Repeat A-B	A→B	Set start/end points to repeat continually
16	OK	OK	Start or pause playback, confirm settings
17	Direction Buttons	◀▶	Up/down/left/right to select items for setting
18	Title	TITLE	Title menu of DVD
19	Root	ROOT	Enter main menu of DVD
20	Repeat	↻	Repeat playback of current chapter
21	Next	▶▶|	Select the next chapter/track for playback, Search for a radio station in decreasing order
22	Previous	|◀◀	Select the previous chapter/track for playback, Search for a radio station in increasing order
23	Fast Reverse	◀◀	Fast reverse of disc or iPod audio content
24	Fast Forward	▶▶	Fast Forward of disc or iPod audio content
25	Audio	AUDIO	Change the audio format for DVD playback
26	Zoom	ZOOM	Zoom in/out on an image
27	Angle	ANGLE	Play different angle for DVD scene
28	SUB Title	SUB-T	Language selection for DVD subtitle

TFT Monitor Operation

Rear Camera Mode

When the vehicle is placed in "Reverse", and an optional rear camera is connected to the unit, the TFT monitor will automatically switch to the camera input source. (See installation guide for proper wiring of Reverse Trigger wire)

NOTE: Rear Camera sold separately. Please contact your Alpha-Nav Dealer to inquire about the rear camera.

Image Setting

Video Output Format

The table below shows the video output format for each source.

Playing Source	Video Output Format
FM/AM Tuner	RGB Mode
DVD	RGB Mode
NAVI	RGB Mode
AUX IN	CVBS Mode
CAMERA	CVBS Mode
iPod(video)	CVBS Mode

Adjustable Parameters

Parameter Adjustment Procedure

1.Press the PIC button on the remote

Each time the PIC button is pressed, the adjustment cycles from “BRIGHT’ to “CONTRAST,and the to “COLOR”

2. To adjust brightness, contrast and color

Press the (◂ ▸) buttons on the remote to adjust

3. Exit Picture Quality Setting Mode:

Press the PIC button on the remote.

NOTE:
There must be a video signal present on the AUX or CAMERA input to adjust the above settings.

Parking Brake Inhibit

1. The display on the TFT monitor will display video only when the vehicle is stopped and the parking brake is applied.
2. Parking brake function is overridden when the video source is set to CAMERA.
3. When the "parking brake inhibit" is active, the front monitor displays "Caution" with blue background, preventing the driver from watching video while driving to reduce the risk of a traffic accident. Rear video screens are not affected.(if connected, **not included**)

See installation guide for proper wiring of the parking brake inhibit feature

Operation Instructions

Power On / Off

Press the **POWER /VOL** button to turn the unit on. You can also turn on the unit by pressing the **POWER** button on the remote.

Press and hold the **POWER/VOL** button on the front panel or press the **POWER** button on the remote to power off the unit.

Selecting a Source

Press the (SRC) button on the remote to change among available playing sources: TUNER, DVD iPod, AUX1 IN, AUX 2 IN, CAMERA (rear view video camera), NAVI, BLUETOOTH, USB and SD Card. The play mode is displayed on the TFT display.

You can also touch the source icon on the main LCD screen to select a source. Be aware there are two source selection screens on the LCD display. The first display shows NAVI, SETUP, BLUETOOTH, RADIO, DVD and iPod. The second screen shows USB, SD, AUX 1, AUX 2 and CAMERA. To switch between screens, place your finger on the lower right side of the screen, and move your finger towards the left side of the screen to access the second source screen. Small blue dots in the lower center of the screen indicate which screen you are in.

You can also select a source using your vehicle's steering wheel controls (if they have been interfaced with your unit. (Check with your Alpha-Nav dealer for compatibility of your steering wheel controls with this unit)

Volume Adjustment

To increase or decrease the volume level, turn the **POWER/VOL** on the front panel or press the **VOL+/ VOL**- buttons on the remote control. The volume ranges from "0" to "40".

Audio Equalizer Control Menu

The Audio Equalizer Control feature allows you to easily adjust your audio system to meet the acoustical characteristics of your vehicle, which vary depending on the type of vehicle and its measurements. To get the best possible sound quality from your new system, be sure to adjust the settings for the speakers as well. Proper setting of the Fader and Balance boosts the effects of the cabin equalizer.

Accessing the Audio Equalizer Control screen

Press the EQ ICON button in any source screen to display the Audio Equalizer Control Screen

Use the ◂ ▸ icons to change the EQ from Jazz, Pop, Rock, or USER. Only the USER selection will allow you to custom set the EQ settings, all others are preset. To adjust the Subwoofer, Bass, Treble, Balance and Fader, move the blue bars to the left or right to increase or decrease the Bass and Treble, and subwoofer, and to change the Balance from left to right, and the Fader from front to rear.

To return to the source screen, press the home icon at the upper left of the screen

If you are in CD or MP3 playback and select the Audio Equalizer Control, touch the return arrow on the upper right of the EQ screen to return to the source screen.

System Reset

To correct a system halt or other unusual operation, use the tip of a pen to press the RESET button located on the front top-left corner of the unit. After a system reset, the unit restores the settings before last power off.

Mute

Press the MUTE button on the remote to mute the volume from the unit.
Or rotate the knob of Power/ Vol. and reduce the volume to "0".
Short press the Power Knob to put the system on mute.

> **NOTE**: Press the **MUTE** button on the remote again to restore the volume.
> Adjusting the volume or using any of the audio set-up features will cancel the mute function.

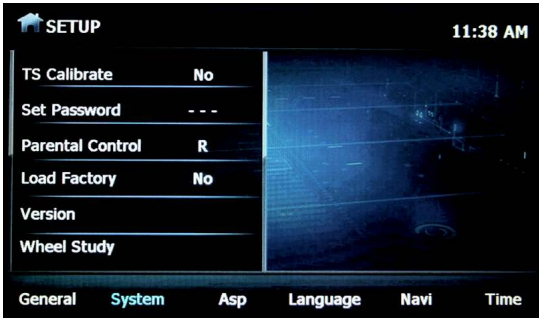
System Setup

System setup consists of 6 sub-menu settings: System settings, ASP settings, General settings, Language settings, Navigation settings and Time settings.

To enter the System Setup screens, touch the Setup icon on the main screen display

System Settings

Enter the System Settings program menu by touching **SYSTEM**.
In system settings, there are options such as TS Calibrate, set password, Parental control, Factory default. See picture below:



TS Calibration:

After selecting "Yes", a crosshair + appears in the middle of the screen. To begin calibration, press and hold the crosshair for one second until the crosshair moves to the upper left quadrant. Continue to each quadrant until the calibration is completed

Set password:

Enter a 4-digit password to activate the "Parental Control" function. To reset the password, access the "Set Password" option and enter the current password to unlock the field. The default password is blank; you can enter 8888 to unlock the parent control anytime.

Parent Control:

Select the appropriate rating level for the intended audience. You may override higher ratings by using your password

Factory default:

Select "Yes "to restore the factory default settings for the rating system only.

Version:

Touch Version to open adjust screen. Software version information is displayed

Steering Wheel Function Study:

See next page for information on the Wheel Function Study

Steering Wheel Function Study

Enter the System Settings program menu by touching **SYSTEM**. Select Wheel Study This menu allows you or your installer to program the internal Steering Wheel Control interface in this unit to enable the steering wheel controls in your vehicle's steering wheel (if you have this option from the factory) to control main functions of this unit. **PLEASE SEE NOTE BELOW.** The steering wheel function study interface is shown in the picture below:

NOTE: The internal Steering Wheel Control interface in this unit may not be able to interface with your vehicle's steering wheel controls. Please check with your Alpha-Nav dealer to check for compatability.
Your dealer should complete the following programming steps for you.

To program the Steering Wheel Interface for basic steering wheel control:
1. Press Wheel Study, and the Study menu will appear
2. Press Mode 1
3. Then press one of the steering wheel control buttons on your vehicle's steering wheel
4. Press the corresponding icon in the Wheel Study menu. The icon will darken to confirm the command.
5. Continue the above procedure until all buttons on your steering wheel are programmed into the Wheel Study menu
6. Exit the Wheel Study menu by pressing the home icon

NOTE: Some vehicles will require you to program your steering wheel controls to the unit by using both Mode 1 and Mode 2. Please see your Alpha-Nav dealer for more information. If this is required, program Mode 1 as above, and then press Mode 2 and follow the same programming steps you did in Mode 1. When you are done, exit the Wheel Study menu, and programming is complete

ASP (Audio Signal Processing) Settings

Enter the ASP setup program menu by touching **ASP.**
The ASP Settings menu allows you to make fine audio adjustments.
ASP settings have four sub-menu settings: Bass, Treble, Subwoofer crossover frequency and Bass Q factor. See picture below:

Bass Frequency:
Touch Bass Freq to open adjust screen
60Hz, 80Hz, 100Hz,200Hz adjustment points Depending on the audio source, select the Bass Center Frequency to achieve the best Bass effect.

Treble Frequency:
Touch Treble Freq to open adjust screen
10KHz,12.5KHz,15KHz,17.5KHz adjustment points Depending on the audio source, select the Treble Center Frequency to achieve the best Treble effect.

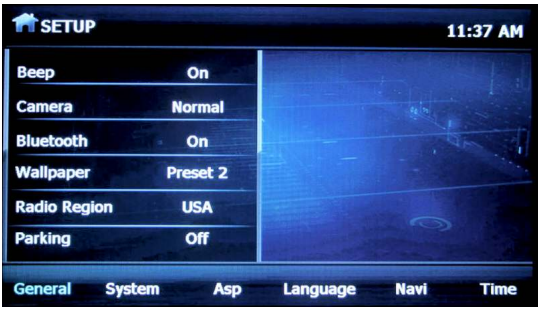
Sub Filter:
Touch Sub Filter to open adjust screen
80HZ, 120HZ, 160HZ adjustment points. Selecting a crossover frequency sets a cut-off frequency of the subwoofers LPF (low-pass filter). This adjustment is only available when using the subwoofer line level output. It will not effect any speakers connected to the internal amplifiers in the unit.

Bass Q-Factor:
Touch Bass Q-Factor to open adjust screen
When the Bass Center Frequency is selected, adjusting the Bass Q-Factor alters the sharpness of the Bass output

To exit the A.S.P. Settings menu, press the home icon in the upper left corner of the LCD display

General Settings

General settings has five sub-menu settings: Beep, Camera, Bluetooth, Wallpaper and Version .See the picture below



Beep:

Touch Beep to open adjust screen When turned on, an audible beep tone confirms each function selection.

Camera:

Touch Camera to open adjust screen. When turned on, the rear view camera function is on. Your Alpha-Nav dealer can add this feature to your unit.

Bluetooth:

Touch Bluetooth to open adjust screen. When turned on, the Bluetooth receiver is on.

Wallpaper:

Touch Wallpaper to open adjust screen. There are six different wallpaper selections for your preference.

Radio Region:

Set the AM/FM tuner to the proper frequency based on your location. The default setting is USA.

Parking Brake:

Enables parking brake interrupt to prevent video from playing while vehicle is moving

To exit the General Settings menu, press the home icon in the upper left corner of the LCD display

Language Settings

Language settings have three sub-menu settings: OSD language, Subtitle language and audio language. See the picture below.

OSD language:

Set to show-on screen language display. Language options include English, Russian, French, Spanish and Chinese.

Audio language:

Set audio language display. Language options include English, Russian, French, Spanish and Chinese.

Subtitle language:

Set the subtitle language when in DVD playback mode. Language options include English, Russian,French, Spanish, Chinese,

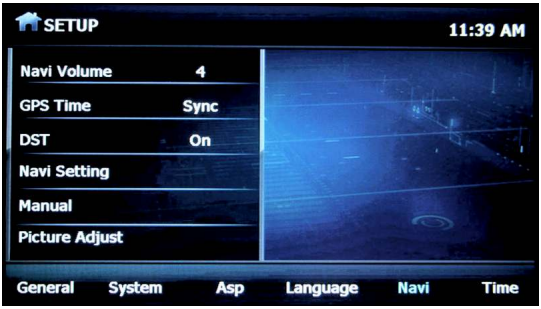
DVD Language:

Set the DVD audio playback language,Language options include English, Russian,French, Spanish, Chinese,

To exit the Language Settings menu, press the home icon in the upper left corner of the LCD display

Navi Setting

Navi settings includes: Navi volume, GPS time, Daylight Savings Time, Navi setting. See the picture below:



Navi Volume:
Sets the navigation voice volume to blend in with the current sources audio levels.

GPS Time:
Setting to on allows the unit clock to display accurate time and date information without the need for manual time setting.

DST (Daylight Savings Time):
When turned on, adjusts the GPS time to compensate for Daylight Savings Time.

Navi Setting:
Interfaces mapping software on the SD card with the GPS hardware in the unit. This does not need to be changed, it is set from the factory.

Manual:
This contains an abbreviated users manual, in case you misplace the printed copy.

Picture Adjust:
Settings that let you adjust Brightness, Contrast and Color without the need to use the remote control

To exit the General Settings menu, press the home icon in the upper left corner of the LCD display

Manual Time Setting

Time setting includes: time setting and date setting. See pictures below:

Date setting

Time setting

Date setting:

Touch the date setting which prompts the keypad " MM/YY/DD", then touch the numeric keypad to set the date.

Time setting:

Touch the date setting which prompts the keypad " AM/TIME/ PM", then touch the numeric keypad to set the time. Touch AM/PM to select 12H or 24H.time display,and then touch again to select AM or PM time.

NOTE:

If you have set the GPS Time to ON in the Navi Setting screen, you do not have to manually set the time and date.

To exit the General Settings menu, press the home icon in the upper left corner of the LCD display

Main Menu (Controls and Indicators)

This unit contains Radio, DVD, Navigation, Bluetooth, iPod, rear view camera, SD, USB, AV IN, and Setup etc. Touch an icon on the main menu screen to select the source

Main Menu is laid out in 2 different screens, as shown in the pictures below. The first screen contains, Navigation, Setup, Bluetooth, Radio, DVD/CD and iPod sources. By touching the lower right side of the screen and moving your finger to the left side of the screen will then show the second source screen, This screen has USB, SD, AUX 1, AUX 2 and Camera sources. The screens are indicated by blue dots on the lower center of each menu.

When you touch the upper left return icon it exits the main menu and goes back to the current source you are listening to. Touch the power icon in the upper left side of the screen to turn main screen off, and touch the screen anywhere to turn it back on.

Navigation: Selects Navigation. Make sure map SD card is loaded. Please refer to navigation manual for instructions

Setup: Touch to enter system setup

Bluetooth: Touch to enter Bluetooth handsfree mode

Radio: Touch to listen to AM or FM radio stations

DVD: Touch to play a DVD disc or CD audio disc. Inserting a disc will automatically select the DVD source.

iPod: Touch to play iPod audio and video (special cable required for video playback, available from your Alpha-Nav dealer)

USB: Touch to play music, video or pictures stored on a USB memory stick, or a portable USB drive (will support a portable drive up to 20GB)

SD Card: Touch to play music, video or pictures stored on an SD Card. This unit will support SD Cards up to 2GB.

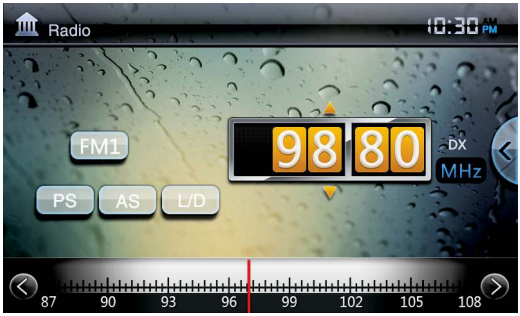
Camera: Touch to turn on rear view camera input.
NOTE: A camera must be connected to this input and be on when Camera is selected. If not, touching the Camera input will show nothing on the screen.

AUX 1: Touch to select the front panel 3.5mm audio/video jack. If there is no video being input when AUX1 is selected, the screen will show “AUDIO ONLY” and only audio will be played through the unit.

AUX2: Touch to select the rear panel Audio/Video inputs. See your Alpha Nav dealer to properly connect this input to external audio/video devices. If there is no video being input when AUX2 is selected, the screen will show “AUDIO ONLY” and only audio will be played through the unit.

Tuner (FM/AM) Operation

From the main menu, touch the radio icon to enter radio mode, touch the home icon to exit the Radio source and return to the main menu screen. For reference the radio screen is shown below:



Select FM/AM Band

Touch the FM/AM band on the screen to change the following bands: FM-1, FM-2, FM-3, AM-1. Each band can store 6 stations, for a total of 24.

Manual Tuning

Press the icon ▸ to increase the tuning frequency one step at a time.
Press the icon ◂ to decrease the tuning frequency one step at a time.
Or, directly touch the Manual tuning display to locate your desired stations.

Direct select radio frequency.

Touch the inside position of the frame of the radio frequency display, then a numeric keyboard will display. Touch the numbers in the display to enter a radio station. Make sure that you add a period in the radio frequency selection, ie.,94.7. If you make an error entering a number, use the back arrow to remove the incorrect information. When you have entered the desired station, touch the OK button; the radio will switch to the entered frequency and the keyboard will disappear.

Auto Store (AS)

Touch AS icon on the screen to automatically scan and store the 6 strongest stations in the selected band.

Preset Scan (PS)

Touch the PS icon on the screen for scanning the 6 preset stations stored in the selected band.

Scan Tuning

To tune to the next strongest radio station, touch the ▲ icon on the top of the radio station display to tune up or the ▼ to tune down to the next strongest station.

Local Distant (LD)

Changes the radio's sensitivity and helps to receive weak AM or FM stations. To tune in a weak station, set to Distant (DX) or for stronger stations, set to local (LOC). It is recommended to leave this button in the DX position for maximum tuner performance.

Storing a Station

1. Select a band (If needed), then select a station. Example: FM1 103.6MHz
2. Touch the Right Open button to display the stored station display
3. Touch and Hold for 3 seconds the desired preset number to store the selected radio station. See picture below of the stored station display

To close the stored station display, touch the ▶ icon on the stored station display.

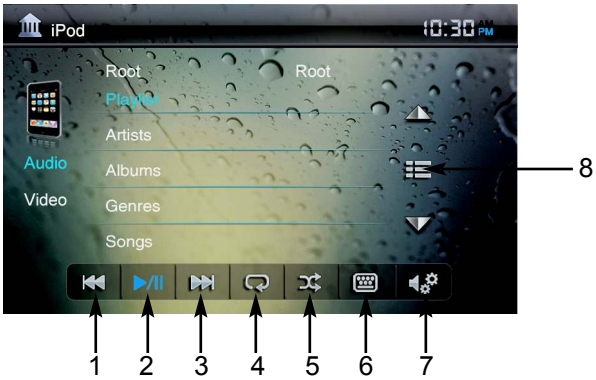
iPod Operation

Before selecting the iPod source, make sure that the iPod cable is connected to the USB input behind the cover on the front panel. (see page 7 for location)

Select iPod source by touching the iPod icon on th main menu screen.

NOTE: It may take several moments before iPod audio will start to play. This is normal, as the unit is accessing all the music files on the iPod to be able to display them on screen. The more files on the iPod, the longer the wait time.

The main iPod screen will appear. For reference, a picture of the screen is shown below:



The unit will control and display file information just as your iPod does. Once the iPod is connected to the unit, touch ROOT on the screen to access all the playback options for the iPod. You can see Playlist, Artists, Albums, Genres, Songs and Podcasts. Touch one of the above choices to see all songs associated with that choice. To play a song associated with a particular choice, like Artist, touch the displayed song title, and it will start to play.
When you are displaying playlist, choose the playlist first, then the song. You can touch the ▲▼ buttons to scroll through song titles and playlist.

Touch screen button functions for main iPod playback screen:

1. Touch to play previous track
2. Touch to Play/Pause
3. Touch to play next track
4. Touch to start/stop Repeat track
5. Touch to start/stop Random Play
6. Touch to display the numeric keypad on the screen and then you can use the numeric keypad to directly access a track.
7. Touch to access the EQ Settings screen
8. Touch this icon to go to the detail playback screen.
9. Touch this icon to ga back to main iPod screen

The detail playback screen is shown below:

To play iPod Video

1. Touch VIDEO on the main iPod display screen
2. A new screen will open up. Touch MOVIES to display all movie files on your iPod/iPhone
3. Touch the category of video that you want to watch. All artists under that category will be displayed.
4. Touch the artist name to display all video's by that artist
5. Touch and hold the video title you wish to watch, and the video will start playback

NOTE: In order to view iPod/iPhone video, the iPod Audio/Video cable must be installed. This cable will control all functions of the iPod/iPhone, and allow video to be displayed on the LCD screen. Check with your Alpha-Nav dealer for more details.

DVD Player Operation

NOTE: When properly installed, DVD video cannot be displayed on the main TFT screen unless the parking brake is applied. If you attempt to play a DVD while the vehicle is moving, the TFT screen displays caution information with a blue background. Rear video screens, if applicable, will operate normally

Insert / Eject Disc

Inserting a Disc

When inserting a DVD disc, DVD mode is entered and disc play begins.

NOTE: If Parental Lock (Rating) is activated and the disc inserted is not authorized, the 4-digit code must be entered and/or the disc must be authorized (see "RATING (Parental Lock) Menu").

You cannot insert a disc if there is already a disc in the unit or if the power is off.

NOTE: CD-R/RW, DVD-R/RW, DVD+R/RWs will not play unless the recording session is closed.

Ejecting a Disc

Press the button ⏏ on the unit to eject the disc. The unit automatically reverts to Tuner mode at the same time.

Accessing DVD Mode

To switch to DVD mode when a disc is already inserted, press the MENU button on the front panel to show main screen icons, and then touch the icon to start DVD playback. You can also press the SRC button on the remote to cycle through all sources until DVD is shown on screen.

Access main DVD menus:

To access the DVD main menus, simply touch the DVD's displayed on-screen menus to start DVD playback or select other menu options. You can also use the ◀ ▶ ▲ ▼ buttons on the remote to scroll through the DVD's on-screen menus, and push the OK button to select your choice.

To advance chapters:

Touch the right side of the LCD screen to advance to the next chapter, and touch the left side of the screen to go back a chapter. You can also use the ⏭ and ⏮ buttons on the remote.

Using the Touch Screen Controls

While playing a DVD, touch the center of the screen to display the Touch Screen Controls. See picture below for details.

1. Touch to Play/Pause
2. Touch to stop
3. Touch to fast reverse
4. Touch to fast forward
5. Touch to display Sub-title
6. Touch to repeat playback
7. Touch to go to audio controls screen
8. Touch for DVD search by chapter
9. Touch to return to DVD main menu
10. Touch to switch among speaker output options, language, or Dolby audio playback options
    Touch the center of the screen to hide the Touch Screen controls

Controlling Playback

Stopping Playback

Touch the stop button on the screen or press the ■/BAND button on the remote control to stop DVD play; touch the play/pause button on the screen or the OK button on the remote control to resume disk play.

Pausing Playback

Touch the play/pause button on the screen to suspend or resume disc play.

Repeat Playback

Press the Repeat button on the screen or on the remote control to access repeat mode according to the following:

• DVD: Repeat Title, Repeat Chapter, Repeat Off
• VCD (PBC Off): Repeat Single, Repeat Off
• MP3: Repeat Single, Repeat Folder, Repeat All, Repeat Off

NOTE: For VCD play, the repeat function is not available if PBC is on.

PBC (Play back Control) (VCD Only)

For VCD with play back functionality, play back control (PBC) provides additional controls for VCD playback.

Press the **ROOT** button on the remote control to toggle the PBC function "On"/"Off". Once PBC is on, playback starts from track one of the play list.

NOTE: When PBC is activated, fast forward, slow playback, and previous/next track are available. Repeat and direct track selections are not available. When PBC is activated, selecting random, scan, or search playback automatically deactivates PBC.

Sectional Repeat Function (A-B)

Use the A-B function to define a specific area of a disc to repeat.

1. Press the **Repeat A-B button** on the screen or on the remote control to set the start point (A) of the repeated section.
2. Press the **Repeat A-B button** again once you reach the desired end point (B) of the repeated section. The selected portion of the DVD will now repeat continuously.
3. Press the Repeat A-B button ( ) again to cancel the A-B section setting and stop repeat play

Fast Forward/Fast Reverse

Press the ⏩ button on the remote control or touch the ⏩ on the screen to fast forward. Keep pressing or touching and releasing the button to increase the rate from “X 2" to "X 4", "X 8", and "X 16".

Press the ⏪ button on the remote control or touch the ⏪ on the screen to fast reverse. Keep pressing or touching and releasing the button to increase the rate from "X 2" to "X 4", "X 8", and "X16".

Direct Chapter / Track Selection
During DVD, VCD and CD playback, you can use the numeric keypad on the remote control to access a track directly.

Viewing an Alternate Picture Angle (DVD Only)
Some DVDs contain scenes that have been shot simultaneously from different angles. For discs recorded with multiple angles, press the **ANGLE** button on the remote control to toggle available angles of the on-screen image

Zooming
Press the **ZOOM** button on the remote control to enlarge and pan through the video image using the following options: "Q1", "Q2", "Q3", and "OFF".
Multi-Language Discs (DVD Only)
Changing Audio Language
If you are watching a disc recorded in multiple languages, press the **AUDIO** button on the remote control to choose a language. Or touch the icon.

NOTE: During VCD playback, press the **AUDIO** button on the remote control to choose between Left Channel, Right Channel, and Stereo.

Changing Subtitle Language
If you are watching a disc recorded in multiple languages with subtitles, press the **SUBT** button on the remote control to choose the language in which you would like the subtitles to appear.

Playback Information
During DVD and VCD playback, press the **INFO** button on the remote control or touch the screen anywhere to display playback information on the screen, including the media playing and current playback time.

DVD Playback Information
The following information is displayed at the middle of the screen during DVD playback:

CD/MP3/WMA/JPEG Operation

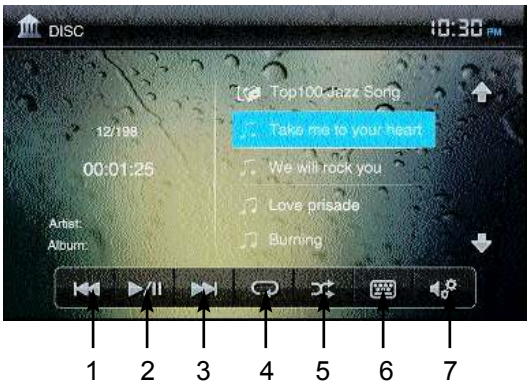
Instructions for Insert/Eject, Play/Pause, Stopping Playback, Track Selection, Fast Forward/Fast Reverse, Scan, and Random Play are the same for DVD, CD and MP3 operation. Please see the DVD Player Operation section for information about these topics.

The file naming formats listed below are compatible with this unit:

• ISO 9660 - file name: 12 characters, file extension: 3 characters
• ISO 9660 - file name: 31 characters, file extension: 3 characters
• Joliet - 64 characters

If the file or folder name does not conform to ISO 9660 file system standards, it may not be displayed or played back correctly.

The picture below shows the CD player screen:



1: Touch to play previous track
2: Touch to play or pause a song
3: Touch to play next track
4: Touch to activate/deactivate Repeat Single
5: Touch to activate/deactivate Random Mode
6: Touch to display the numeric keypad on the screen and then you can use the numeric keypad to access a track directly
7: Touch to go to Equalizer Menu

Playing CD Files

After inserting a CD disc, songs will play in the sequence of the CD.The display will show the track number of the song being played. While listening to the CD, you can press the numeric buttons on the remote control or touch a track on the on screen display to play the selected track. Touch the on screen ▲▼ icons to scroll through all the tracks on the CD.

MP3/WMA Discs

This player allows you to play MP3/WMA files recorded on CD-ROM, CD-R, CD-RW, DVD+R/RW and DVD-R/RW. For CD-RW discs, please make sure they are formatted using the full method and not the quick method to prevent improper disc operation. Use the following settings when compressing audio data for your MP3 disc:

• Transfer Bit Rate: 320kbps

• Sampling Frequency: 48kHz

When recording MP3 up to the maximum disc capacity, disable additional writing. For recording on an empty disc up to maximum disc capacity, use the "Disc at once" setting.

The touch keys for MP3/WMA CD/DVD playback are the same as for CD player

Accessing folders when playing MP3 files

The picture below shows the file folder screen when playing MP3 files

Touch the Root icon above the MP3 file names to open the folders contained on the CD/DVD.

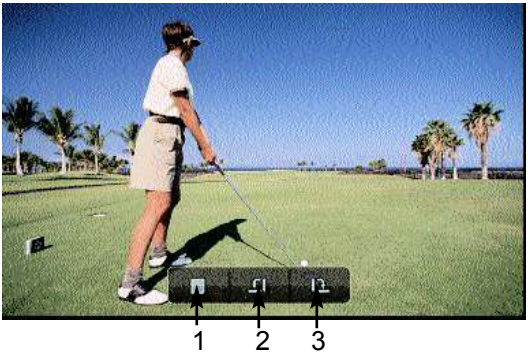
1. A list of all folders on the CD/DVD will be displayed. Touch the folder to display all files in the folder. Touch a file name to start playing the file.
2. Use the ▲▼ to scroll through all folders.

JPEG picture play back

The JPEG picture screen with folder display is shown below:

1: Touch to play previous picture
2: Touch to play or pause a picture
3: Touch to play next picture
4: Touch to activate/deactivate Repeat Single
5: Touch to activate/deactivate Random Mode
6: Touch to display the numeric keypad on the screen and then you can use the numeric keypad to access a picture directly
7: Touch to go to Equalizer Menu

To exit the JPEG player screen, touch the upper left corner of the LCD screen to return to the main menu screen, or press the MENU button on the unit.



1. Stop button. Press to end picture show and return to main folder list
2. Press this icon to rotate the image counter-clockwise in 90 degree increments
3. Press this icon to rotate the image clockwise in 90 degree increments

USB Operation

Accessing USB Mode

1. To switch to USB mode, press the Menu button on the front panel to display the main menu screen, or press the (SRC) button on the remote control repeatedly until USB appears the top of the screen screen.
2. Select the second page of the Main menu by touching the lower right side of the screen and moving your finger to the left to access the second page of the Main menu screen, then touch the USB icon to select USB as your source.

USB Instructions

The touch keys on the screen for USB playback are described below, For Icon definition see CD/MP3/WMA/JPEG Operation.

SD Operation

Accessing SD Mode

1. To switch to SD mode, press the Menu button on the front panel to display the main menu screen, or press the (SRC) button on the remote control repeatedly until SD appears the top of the screen screen.
2. Select the second page of the Main menu by touching the lower right side of the screen and moving your finger to the left to access the second page of the Main menu screen, then touch the SD icon to select SD as your source.

SD Instructions

The touch keys on the screen for SD playback are described below, For Icon definition see CD/MP3/WMA/JPEG Operation.

Bluetooth Operation

Before using the Bluetooth

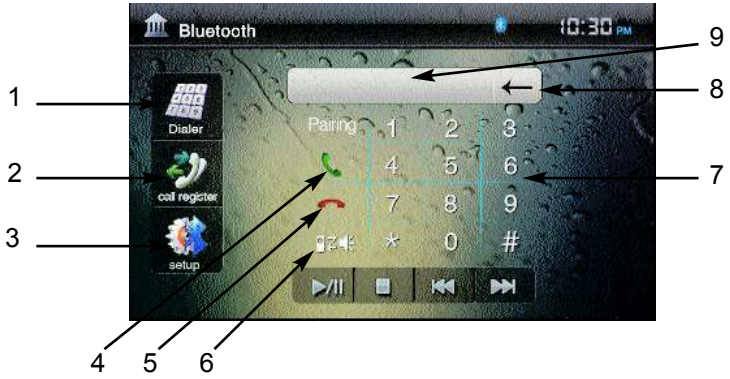
Before using the Bluetooth, it's necessary to perform the following steps. For more operating details, refer to each section below.

1. Select the "Bluetooth" option in the General setup and select the "On" option to activate the Bluetooth feature.
2. Pair your cell phone to this unit (refer to the "Pairing" operation). It is necessary to pair your phone to the unit. Without pairing, Bluetooth functions are not available.

The Bluetooth icon at the top right screen will be on solid when Bluetooth equipment has connected properly with the system. The Bluetooth icon will flash if not connected with a Bluetooth enable device.

You can select the Bluetooth mode by going to the main menu screen and touching the Bluetooth icon, or the system will switch to Bluetooth function interface automatically from another function when you receive a call.

The Bluetooth phone interface main screen is shown below:



1. **Dial Function:** Touch to select the Dialer screen
2. **Call Log:** Touch to select the Dialed, Missed and Received numbers from your device
3. **Setup Function:** Touch to select Bluetooth on/off, Auto Connect on/off and Auto Answer on/off
4. **Dial/Answer function:** Touch to dial a number entered on the keypad, or to answer a call

5. **End function:** Touch to end a call
6. **Phone Transfer function:** Touch to switch audio between the car speakers and the cell phone handset speaker
7. **Keypad:** Touch the keypad to enter a phone number
8. **Delete Button:** Touch to remove incorrect numbers when using the keypad to dial a number
9. **Message Bar:** Shows Caller ID number when receiving a call, and displays a dialed number entered from the keypad

Check Phone Numbers function

Touching this button on the main Bluetooth screen will display phone numbers for Missed, Dialed and Received calls. Double touch the desired number to make a call. The screen will change to phone interface screen after the call is connected. The Check Phone Numbers screen is shown below.

Bluetooth Setup

touch the icon on the left side of the screen to access to the Bluetooth setup interface, which contains the pairing mode, auto answer and connect mode The interface returns to the keypad automatically when no settings are selected. The Bluetooth Setup Screen is shown on the top of th next page.

Bluetooth:
Touch to turn the Bluetooth function on or off

Auto Connect:
Touch to turn Auto Connect on or off. When Auto Connect is on, the Bluetooth receiver in the unit will automatically pair and connect to the last phone or Bluetooth device used in the system. When Auto Connect is off, you must pair your cellular phone or other Bluetooth device manually.

Auto Answer:
Touch to select Auto Answer function on or off. When the auto answer is on, the incoming phone call will be answered automatically.

Pairing a mobile Bluetooth device to this unit
See picture of the main Bluetooth screen below:

NOTE: Please refer to your Bluetooth device instructions on how to pair your device to a Bluetooth system before attempting to pair your device to this unit.

To pair a device:
Touch the on-screen pair button to initiate the pairing, the words “Wait Paring: will display in the information screen above the keyboard. The device name of the Bluetooth is "CAR NAVI". If your mobile phone pops up a dialog box requesting a pass key or pairing code, enter "1234" to connect. Once you device is paired, the word “Connected” will be displayed in the information screen, and the Bluetooth icon on the upper part of the screen will switch from a blinking to solid display.

NOTE: On some mobile devices, in order to use A2DP streaming audio, you may need to repair the device again to pair both A2DP and cell phone modes to this unit.

Bluetooth Streaming Audio (A2DP)
The Bluetooth provides the Advanced Audio Distribution Profile (A2DP) for streaming audio. Playback controls are located in the bottom center of the main Bluetooth screen shown below.

1. **Play/Pause:** Touch to play or pause audio playback
2. **Stop:** Touch to stop audio playback
3. **Previous:** Touch to go back to a previous song
4. **Next:** Touch to advance to the next song

Navigation

Please read the **Navigation Software User Manual**

Accessing Navigation

1. Access the MAIN menu and touch the Navigation icon on the touch-screen to enter the Navigation Operation interface.
2. Or press the remote control to switch the source to Navigation.
3. Or press NAVI button on the front panel of the unit

Navigation Options

You can still listen to an audio program while using Navigation. To do so, do the following:

Select the audio source. The source can be the Radio, iPod, CD/DVD audio or the audio from either the AUX1 or AUX2 input.

Touch the NAVI button on the front panel to select Navigation. The map will be shown on the TFT display, and audio will continue to play while you are in the Navigation mode.

Navigation voice prompts will mute the audio source, give the instruction, and then return to the audio source

To adjust a parameter of the audio source (i.e., select a different radio station), touch the NAVI button. This will return you to the audio source screen. Make your adjustments, and then press the NAVI button to return the Navigation function. Navigation will continue while you are in an audio source screen, and voice prompts will continue while you make adjustments.

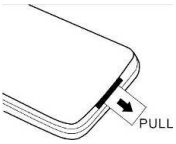
Troubleshooting

PROBLEM	CAUSE	CORRECTIVE ACTION
GENERAL		
Unit will not power on	Radio Fuse Blown	Install new fuse with correct rating
	Car battery fuse blown	Install new fuse with correct rating
	Illegal operation	Press RESET button located in the top left corner of front panel
Remote control does not function	Battery depleted	Replace with new battery
	Battery installed incorrectly	Remove and reinstall
No/low audio output	Improper connections	Check wiring and correct
	Volume set to low	Increase volume level
	Speakers damaged	Check and replace
	Sound out of left or right speakers only	Check balance control and set to center position
	No sound	Check to see if MUTE is on
	Speaker wires shorted to metal in vehicle	Check and insulate all wiring connections
Poor sound quality or distortion	Defective disc	Use original DVD/CD
	Speaker power rating not compatible with unit	Replace with properly rated speakers
	Speaker is shorted	Check speaker connections
TFT MONITOR		
No image	PRK SW is on and parking brake is not set	Stop vehicle in a safe place and apply parking brake
Prolonged image or improper height/ width ratio display	Improper aspect ratio setup	Use correct aspect ratio setting
TUNER		
Weak radio reception	LOCAL function is activated	Turn local function off

PROBLEM	CAUSE	CORRECTIVE ACTION
DISC		
Disc does not play back	Disc is warped or scratched	Use disc in good condition
	Disc is dirty or wet	Clean disc with soft cloth
	Disc rating exceeded Parental Lock rating limit	Change Parental Lock settings to lower restriction
	Disc region code is not compatible with this unit	Use disc with proper region code
	Disc is inserted upside down	Insert disc with label side up
Image blurred, distorted or dark	Disc is illegally copied	Use original disc
MP3		
Interruption during playback	Disc is dirty or scratched	Clean or replace disc
	File is damaged/bad recording	Replace disc with good files
Incorrect playback message displayed	Message is longer than LCD can display	
Error Messages		
MESSAGE DISPLAY	**CAUSE**	**CORRECTIVE ACTION**
Loading	Disc is being read	
No Disc	Disc is dirty	Clean with a soft cloth
	Disc is upside down	Insert disc with label side up
	Disc not loaded	Insert disc
Bad Disc	Disc is dirty	Clean disc with soft cloth
	Disc is upside down	Insert disc with label side up
Unknown Disc	Disc format is not compatible with this unit	
Region Error	DVD has wrong region code	Use DVD with proper region code
Error	improper mechanism operation	Press EJECT key for 5 seconds to reset loading mechanism

Remote Control

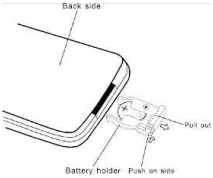
1. When using the remote for the first time, you must pull out the insulation strip

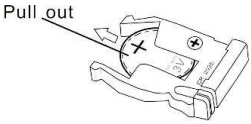


2. Remove the battery if the remote control is not used for a month or longer. Remove and dispose of the old battery immediately.Do not store the battery with metallic materials.

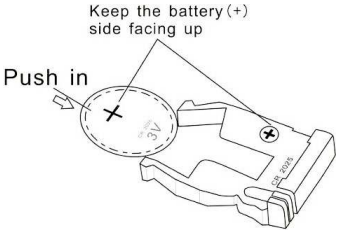
3. Inserting/Replacing the Battery:

Remove the battery holder and remove the battery from the holder

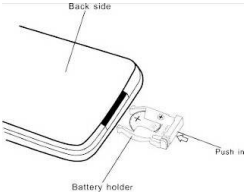




Install the battery



Insert the battery holder



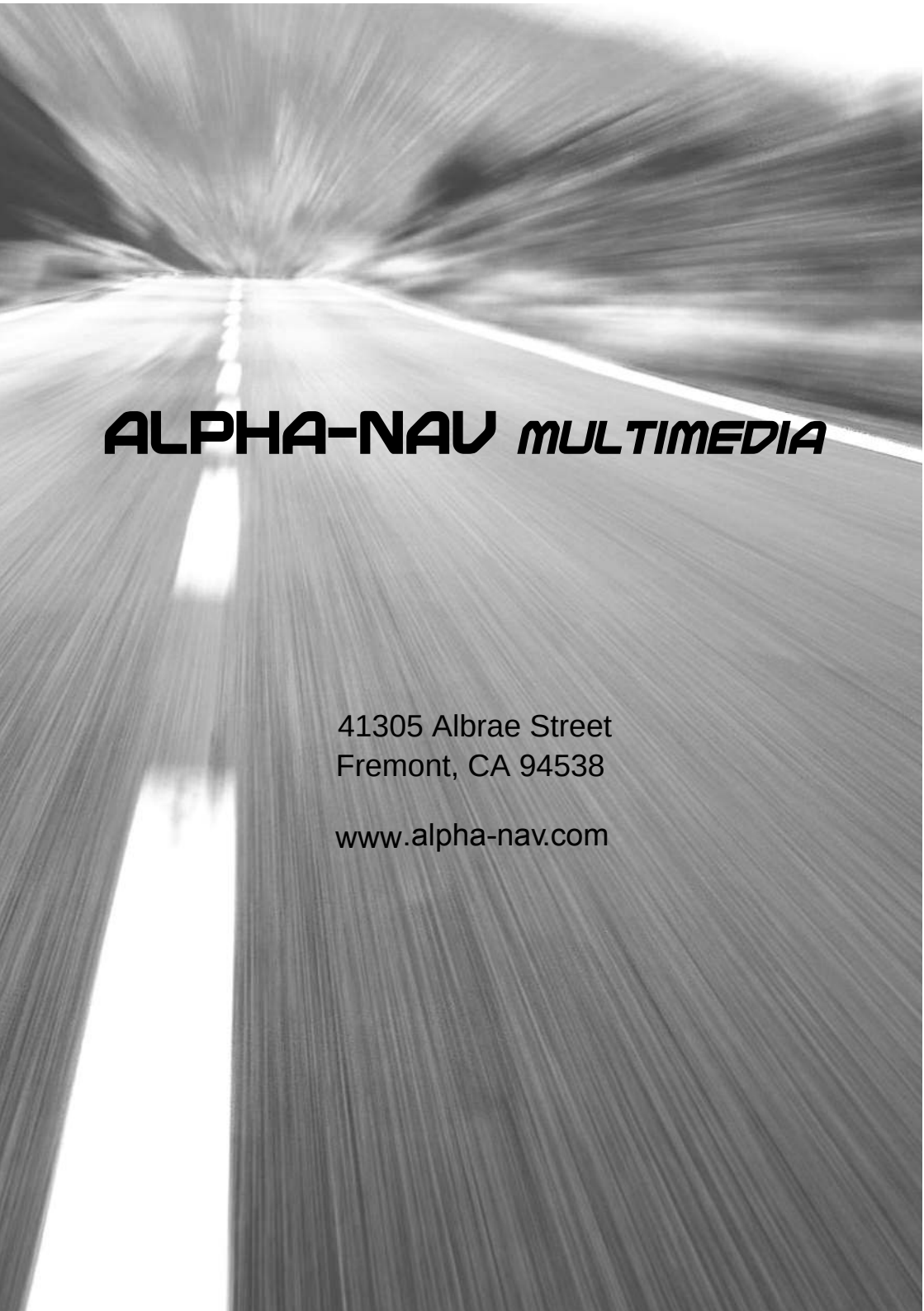
NOTE: Use only one CR2025 (3V) lithium battery.
Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
Do not recharge, disassemble, heat or dispose of the battery in fire.
Keep batteries away from children to avoid the risk of accident.

Suggestions
1. Only use a piece of clean silicone cloth and neutral detergent to clean the front panel or monitor. A rough cloth and non neutral detergent (such as alcohol) may result in scratching or discoloration.
2. Keep off water and other liquid things.
3. If the temperature inside the player gets too high, a protective circuit automatically stops playing the disc. And then, please wait for the unit to cool down before operating the player again.
4. Never insert anything other than a 5" (12 cm) compact disc into the player as the mechanism can be damaged by foreign objects.
5. Do not attempt to use a 3" (8 cm) CD-Single disc in this unit, either with or without an adaptor, as it will damage the player and disc. Such damages are not covered by the Warranty on this product.
6. When the vehicle warms up during cold weather or under damp conditions, condensation may appear on the LCD panel. If this occurs, the screen will not operate properly until the moisture has evaporated.
7. We suggest that you should clean the discs used in this unit more frequently than used in your home, because of the environmental conditions of the vehicle.

Specifications:
Main Amplifier
Power Output: 20 watts RMS X 4 channels into 4-ohms @ < 10% THD+N
Signal to Noise Ratio: 70dBA below reference. (Reference: 1 watt, 4-ohms)
MAX Power: 40 X 4 watts into 4-ohms, all channels driven
Frequency Response: 20Hz to 20kHz, -3dB.
Reference Supply Voltage: 14.4VDC
Video Section
Format: NTSC, PAL (auto-detection)
Output: 1Vp-p (75-ohm), buffered
Input: 1Vp-p (75-ohm)
AM Tuner Section
Tuning Range: 530kHz - 1710kHz
Sensitivity (-20dB): 20dBu
Signal to Noise Ratio @ 1kHz: 50dB
Image Rejection: 60dB
Frequency Response: 50Hz - 2kHz, -3dB

FM Tuner Section
Tuning Range: 87.5MHz - 107.9MHz
Mono Sensitivity (-30dB): 10dBu
Quieting Sensitivity (-50dB): 15dBu
Alternate Channel Selectivity: 70dB
Signal to Noise Ratio @ 1kHz: 58dB
Image Rejection: 60dB
Stereo Separation @ 1kHz: 30dB
Frequency Response: 30Hz - 15kHz, -3dB
DVD/CD Player
Compatible formats: DVD-R, DVD-RW, DVD+R, DVD+RW,CD-R, CD-RW, CD-DA, MP3, WMA, HDCD, SVCD, VCD,MPEG, JPEG, MP3/WMA files burned onto a DVD+R/W or DVD-R/W and CD-R/RW
Signal to Noise Ratio: 85dBA
Dynamic Range: >95dB
Frequency Response: 20Hz to 20kHz, -3dB
Channel Separation: > 60dB @ 1kHz
D/A Converter(s): 6-channel high performance 24-bit, 192kHz, multi-bit Sigma Delta modulation. DAC supports sample rates from 8~192kHz.
Electronic Skip Protection (ESP):DVD: 2-3 sec, CD-DA: 10 sec, MP3: 100 sec, WMA: 200 sec
Mechanical anti vibration ability: 10~200Hz, X/Y/Z direction: 1.0G
Monitor Section
Screen Size: 6.5" (Measured diagonally).
Screen Type: TFT Liquid Crystal Display (LCD) active matrix
Response Time: 30mSec rise time, 50mSec fall time
Resolution, DVD/Composite Video in: 384,000 sub pixels,
800 (W) X 480 (H)
Viewing angle:
o 60 degrees left or right
o 30degrees up
o 60 degrees down
General
Auxiliary Input impedance: 10k
Power Supply: 10.5 to 16V DC, negative ground
Fuse: 10-amp, mini ATM type
DIN chassis dimensions: 6.75 D" X 7” W X 4" H (171mm x 178mm x102mm)

**** Specifications subject to change without notice.***



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